

# The Players of The S C M

# THE PLAYERS OF SCM

Today, no organization can envisage operations without the development of information technology tools. Information technology has become critical to monitor the flow of goods through the supply chain and to provide quick and reliable information.

SCM products all contribute to provide technology solutions to the management of the supply chain.

But if you are unfamiliar with business software,  
be prepared to be bombarded with acronyms  
and buzz words.

MRP, MRPII, ERP, APS, MES, CRM, SCM, WMS, TMS,  
E-business, web-enabled, E-procurement, E-fulfillment,  
are just a sampling of the language used to describe  
software products.

The purpose of this presentation is to provide  
some references with  
who does what for whom.

# THE PLAYERS OF SCM

Supply Chain Management (SCM)  
encompasses four families of Systems:

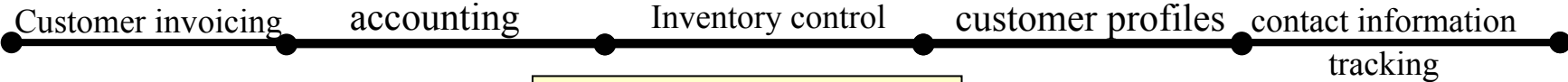
1. The ERP (Enterprise Resource Planning)
2. The APS (Advanced planning System)
3. The SCE (Supply Chain Execution)
4. The MES (Manufacturing Execution System)

# Family 1 - The E R P

(Enterprise Requirement Planning)

Main function

Manage the  
Internal Transactional Functions of the Enterprise



Planning functions?

If so,  
two options

**MRP**

Material Requirement  
planning

**SAP / ORACLE**

**PEOPLESOFT**

**JD EDWARDS**

**BAAN**

**Computers Associates**

**DRP**

Distribution  
requirement planning

# The E R P

(Enterprise Requirement Planning)

## ERP's

keep enlarging their scope of functions  
by integrating an increasing number  
of modules (CRM, SCM, Business intelligence.)

Those extended versions of the ERP being  
called the X'ERP.

# Family 2 - THE APS

## (Advanced Planning Systems)

Main purpose

Logistics Chain Planning

Global Planning approach  
based on the theory of constraints

Integrate an ERP

Not (yet)

Yes

I2

Manugistics  
**Logility / DynaSys**  
**SyntQuest**  
**Aspentech**  
**Parengon**

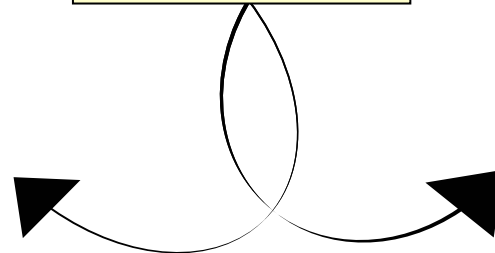
The players

**APS**

**SAP**  
**ORACLE**  
**PEOPLESOFT**  
**JD EDWARDS**  
**BAAN**  
**Comp. Ass.**

**ERP**

- APO
- APS
- Red Pepper
- Numetrix
- Moopi
- Quick Response



# THE APS (Advanced Planning System)

- The main function of APS is the planning of the logistics chain
- The ASP launched the concept of SCM that they opposed to the less reactive ERP.
- ASP propose a global planning approach in opposition to the more iterative approach of MRPs.
  - Two families of APS:  
The ones that have signed agreement with ERP  
and those who have not done that yet.

# Family 3 - THE SCE

**(Supply Chain Execution)**

Main function

Rationalize  
the Order Management Cycle

A D M

Advanced Order  
Management

W M S

Warehouse Management System

T M S

Transport Management  
System

L E S

Logistics Execution Systems

Stock Management > Optimization of stock levels - Replenishment trigger functions

Real-time communication (Internet based interface / Radio frequency, GPS / Track & trace)

**EXE Technologies, Mc Hugh Software (LES)**

IMI (Industry Matematik Intl') / Descartes System Group. Manhattan Ass. / E3 Corp.

Richter Systems / Optum

- SCE integrate three major functions:
  - AOM – Advanced Order Management
  - WMS – Warehouse Management System
  - TMS – Transport Management System
- SCE aims at providing a quick answer to the complex requirements of large customers. (large volumes, short lead times, high demand variability, complex trading conditions).
- SCE's planning capabilities are limited to stocks levels. They do not access upstream information parameters unless linked to Advanced Order Management or Advanced Planning System.

# Family 3 - THE MES

**(Manufacturing Execution System)**

Main function

Provide real time information  
Manufacturing Order Management



Overlapping with the some of ERP functions,  
they have to specialize to  
specifics industries... But their space for development is narrow....

**Promis, Pons , BaseTen (process)**  
**Consilium, Fastech, SynQuest in high-tech.**

# Family 3 - THE MES

**(Manufacturing Execution System)**

• MES main function is to provide real time information on the execution of manufacturing orders.

• They deal with the management of raw materials, equipment, personnel and documentation hence some overlapping functions with ERP.

• With the increasing function of ERP, MES space for growth is limited.

